



Grain Transportation Report

A weekly publication of the
Transportation and Marketing Programs/Transportation Services Branch
www.ams.usda.gov/tmdtsb/grain

Dec. 15, 2005

Contents

Grain
Transportation
Indicators

Rail
Transportation

Barge
Transportation

Truck
Transportation

Grain Exports

Ocean
Transportation

Brazil
Transportation

Contacts
and
Links

Subscription
Information

The next
release is
Dec. 22, '05

Third Quarter Transportation Cost of Shipping Soybeans from U.S. and Brazil to Europe Remains Almost Stable. The cost of shipping soybeans from Minneapolis, MN, and Davenport, IA, to Hamburg, Germany, decreased slightly during the third quarter 2005 compared with the second quarter (see table). The cost of shipping soybeans from Brazil to Hamburg also changed only slightly.

Quarterly cost of transporting soybeans from U.S. and Brazil to Hamburg, Germany

	2005 2nd qtr.	2005 3rd qtr.	Percent change	2005 2nd qtr.	2005 3rd qtr.	Percent change
United States						
Minneapolis, MN						
	--\$/mt--		--%--	--\$/mt--		--%--
Truck	7.82	8.90	13.81	7.82	8.90	13.81
Barge	18.93	28.88	52.56	14.67	23.63	61.08
Ocean ¹	32.81	21.34	-34.96	32.81	21.34	-34.96
Total transportation ²	59.56	59.12	-0.74	55.30	53.87	-2.59
Farm Value ³	230.84	224.26	-2.85	226.81	225.97	-0.37
Landed Cost	290.40	283.38	-2.42	282.11	279.84	-0.80
Transport % of landed cost	20.51	20.86		19.60	19.25	
Brazil						
Northwest RS⁴ - Rio Grande⁵						
	--\$/mt--		--%--	--\$/mt--		--%--
Truck	12.68	12.65	-0.24	79.07	80.67	2.02
Ocean ⁶	44.39	43.04	-3.04	44.84	43.54	-2.90
Total transportation ²	57.07	55.69	-2.42	123.91	124.21	0.24
Farm Value ⁷	210.19	214.23	1.92	161.38	175.08	8.49
Landed Cost	267.26	269.92	1.00	285.29	299.29	4.91
Transport % of landed cost	21.35	20.63		43.43	41.50	
South GO⁴ - Santos⁵						
	--\$/mt--		--%--	--\$/mt--		--%--
Truck	40.11	41.86	4.36	22.82	22.76	-0.26
Ocean	45.84	44.54	-2.84	44.84	43.54	-2.90
Total transportation ²	85.95	86.40	0.52	67.66	66.3	-2.01
Farm Value ⁷	179.81	188.26	4.70	207.04	222.81	7.62
Landed Cost	265.76	274.66	3.35	274.70	289.11	5.25
Transport % of landed cost	32.34	31.46		24.63	22.93	
North Center PR⁴ - Paranaguá⁵						
	--\$/mt--		--%--	--\$/mt--		--%--
Truck	40.11	41.86	4.36	22.82	22.76	-0.26
Ocean	45.84	44.54	-2.84	44.84	43.54	-2.90
Total transportation ²	85.95	86.40	0.52	67.66	66.3	-2.01
Farm Value ⁷	179.81	188.26	4.70	207.04	222.81	7.62
Landed Cost	265.76	274.66	3.35	274.70	289.11	5.25
Transport % of landed cost	32.34	31.46		24.63	22.93	

¹Source: The Baltic Exchange; ²Excludes handling charges

³Source: USDA/NASS

⁴Producing regions: RS = Rio Grande Do Sul, MT = Mato Grosso, GO = Goiás, PR = Paraná

⁵Export ports

⁶Source: ESALQ/ USP (University of São Paulo, Brazil) and USDA/AMS

⁷Source: Companhia Nacional de Abastecimento (CONAB) www.conab.gov.br

The cost of moving soybeans from Minneapolis to Hamburg decreased about one percent from the previous quarter. The cost from Davenport decreased about three percent.

The costs of transporting soybeans from both Northwest RS and North Center PR, Brazil, to Hamburg were approximately two percent lower during the third quarter. The cost of transporting from North MT and South GO remained nearly the same.

Although truck and barge rates increased in the U.S. during the third quarter, this increase was offset by a substantial drop in ocean rates due to a slow recovery in volume of bulk exports from the normally slow second quarter. Ocean rates declined at all the shipping ports in Brazil during this period. Increased truck rates could be attributed to higher diesel prices, while Hurricanes Katrina and Rita affected the barge rates.

The transport costs from Davenport to Hamburg were 19 percent of the landed cost (figure 1). The transport costs from North Mato Grosso, Brazil, to Hamburg were 42 percent of the landed costs (figure 2). Transport costs from South GO were 31 percent of the landed cost; those from North

Center PR were 23 percent.

Figure 1 -- Distribution of landed costs of shipping soybeans from Davenport, IA to Hamburg, Germany, 3rd quarter 2005

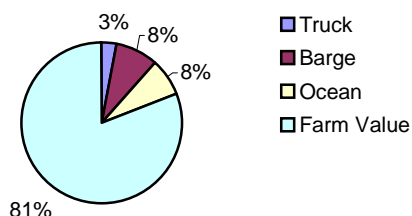
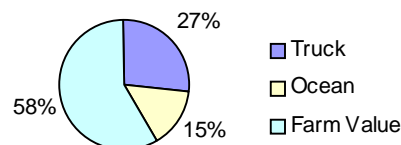


Figure 2 -- Distribution of landed costs of shipping soybeans from North Mato Grosso, Brazil to Hamburg, Germany, 3rd quarter 2005



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Grain Transportation Indicators

Table 1--Grain transport cost indicators*

Week ending	Truck	Rail**	Barge	Gulf	Ocean
12/14/05	163	363	307	179	189
Compared with last week	↑	↑	↑	↓	↑

*Indicator: Base year 2000 = 100; Weekly updates include truck = diesel (\$/gallon); rail = nearby secondary rail market (\$/car); barge = spot Illinois River basis (index = percent of tariff rate); and ocean = routes to Japan (\$/metric ton)

**The rail indicator is not an index. It is the difference between the nearby secondary rail market bid for this week and the average bid for year 2000 (+) 100.

Source: Transportation & Marketing Programs/AMS/USDA

Table 2--Market update: U.S. origins to export position price spreads (\$/bushel)

Commodity	Origin--destination	12/9/2005	12/2/2005
Corn	IL--Gulf	-0.76	-0.72
Corn	NE--Gulf	-0.93	-0.88
Soybean	IA--Gulf	-1.08	-0.98
HRW	KS--Gulf	-0.92	-0.91
HRS	ND--Portland	-1.32	-1.39

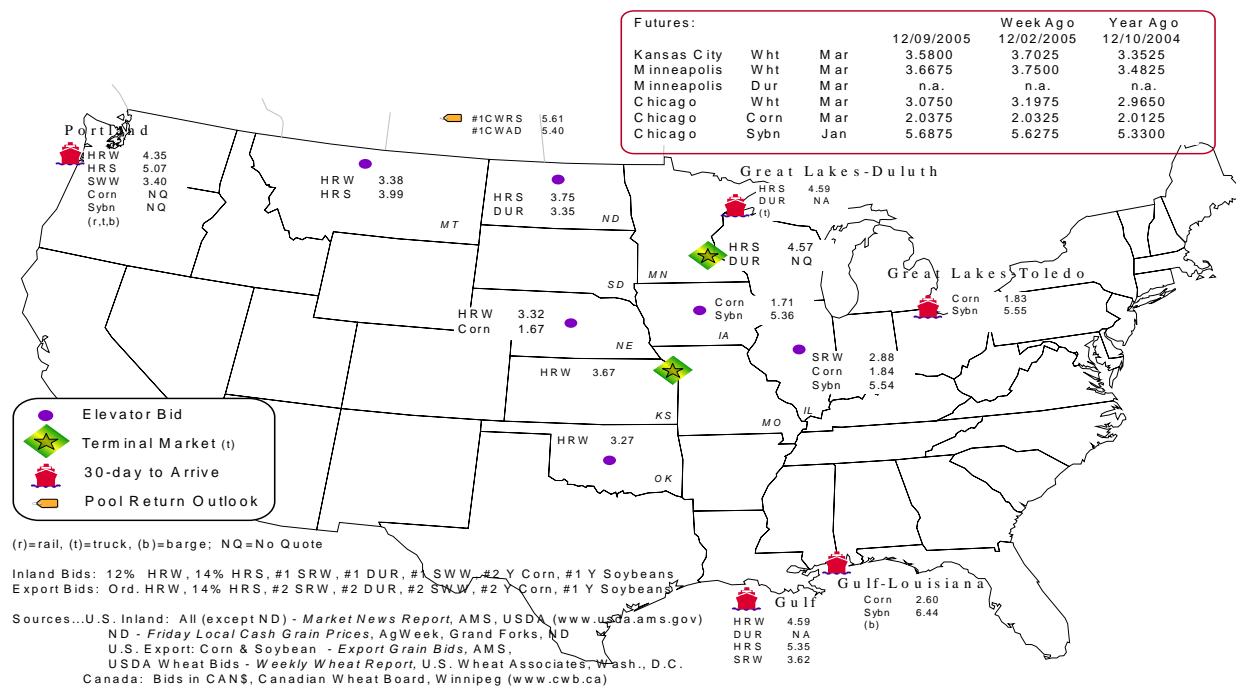
Note: nq = no quote

Source: Transportation & Marketing Programs/AMS/USDA

The **grain bid summary** illustrates the market relationships for commodities. Positive and negative adjustments in differential between terminal and futures markets, and the relationship to inland market points, are indicators of changes in fundamental market supply and demand. The map may be used to monitor market and time differentials.

Figure 1

Grain bid summary



Rail Transportation

Table 3--Rail deliveries to port (carloads)*

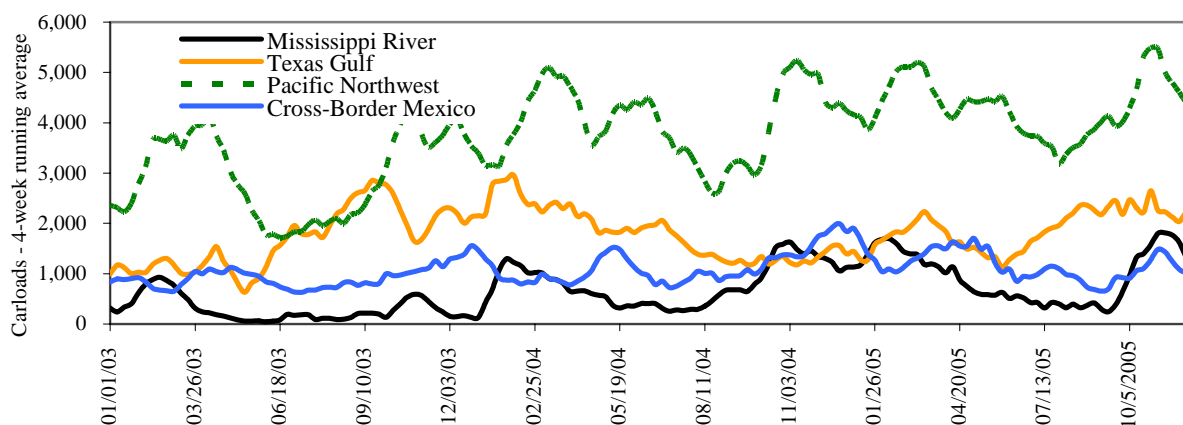
Week ending	Mississippi Gulf***	Texas Gulf	Cross-Border	Pacific	Atlantic &	Total
			Mexico****	Northwest	East Gulf	
12/07/2005 ^p	1,410	1,897	1,282	4,128	380	9,097
11/30/2005 ^r	1,022	2,456	1,428	4,188	529	9,623
2005 YTD	46,980	93,776	57,280	210,911	14,789	423,736
2004 YTD	39,752	87,725	53,585	196,515	9,730	387,307
2005 as % of 2004	118	107	107	107	152	109
Total 2004	43,102	92,073	59,102	209,625	10,986	414,888
Total 2003**	n/a	88,194	48,805	157,125	20,509	329,476

(*) Incomplete Data; as of 9/22/04, Cross-Border movements included; (**) Excludes 53rd week; (***) Mississippi Gulf data back to January, 2004 from several new sources has been added; (****) **Cross-border Mexico data for 2004 and 2005 has been amended to reflect amendments submitted by our sources.** YTD= year-to-date; p=preliminary data; r = revised data

Railroads originate approximately 40 percent of U.S. grain shipments. Trends in these loadings are indicative of market conditions and expectations.

Figure 2

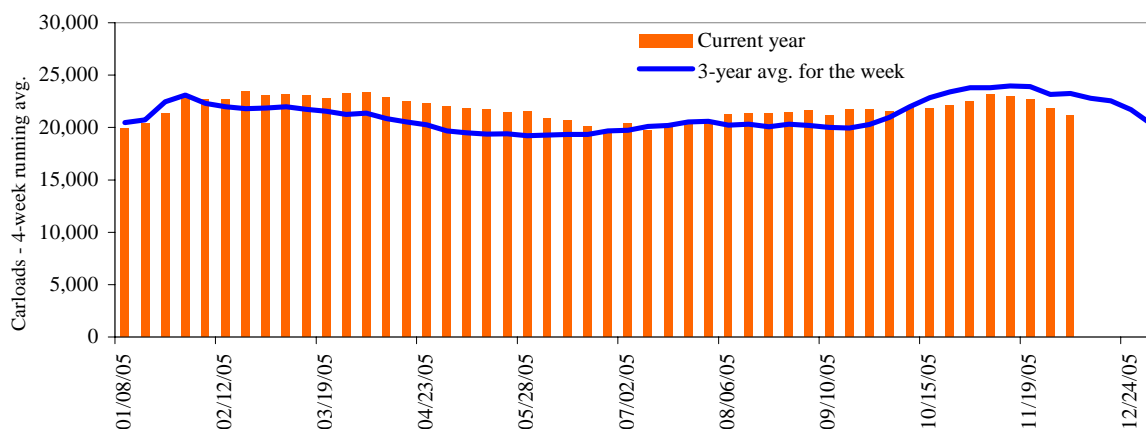
Rail deliveries to port



Source: Transportation & Marketing Programs/AMS/USDA

Figure 3

Total weekly U.S. grain car loadings for Class I railroads



Source: Association of American Railroads

Table 4--Class I rail carrier grain car bulletin (grain carloads originated)

Week ending	East		West			U.S. total	Canada	
	CSXT	NS	BNSF	KCS	UP		CN	CP
12/03/05	3,529	3,459	9,016	355	5,308	21,667	5,677	4,485
This week last year	2,940	3,649	9,659	470	5,886	22,604	5,360	3,980
2005 YTD	140,935	155,674	438,701	25,554	287,024	1,047,888	208,672	196,587
2004 YTD	131,970	157,801	423,974	25,504	306,063	1,045,312	219,884	193,862
2005 as % of 2004	107	99	103	100	94	100	95	101
Total 2004	142,206	169,650	458,587	27,618	327,510	1,125,571	237,664	210,060

Source: Association of American Railroads (www.aar.org); YTD = year-to-date

Table 5--Rail car auction offerings*, week ending 12/10/05 (\$/car)**

Delivery for:	Jan-06	Feb-06	Mar-06
BNSF ¹			
COT/N. grain	no offer	no offer	\$154
COT/S. grain	no offer	no offer	\$47
UP ²			
GCAS/Region 1	no offer	\$101	no offer
GCAS/Region 2	no offer	\$126	no offer

*Auction offerings are for single-car and unit train shipments only.

**Average premium/discount to tariff, last auction

¹BNSF - COT = Certificate of Transportation

N includes: ID, MN, MT, ND, OR, SD, WA, WI, WY, and Manitoba, Canada.

S includes: CO, IA, IL, KS, MO, NE, OK, TX, NM, AZ, CA, UT, and NV.

²UP - GCAS = Grain Car Allocation System

Region 1 includes: AR, IL, LA, MO, NM, OK, TX, WI, and Duluth, MN.

Region 2 includes: CO, IA, KS, MN, NE, WY, and Kansas City and St. Joseph, MO.

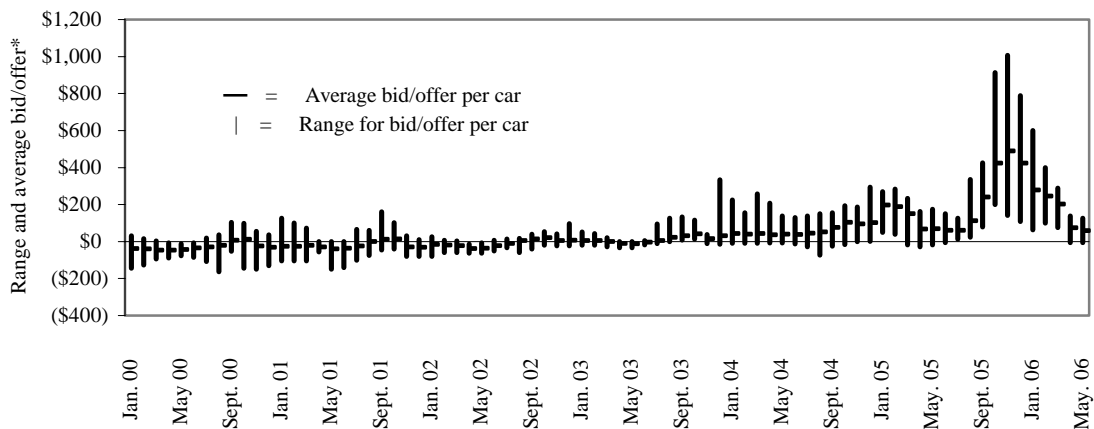
Source: Transportation & Marketing Programs/AMS/USDA

Rail service may be ordered directly from the railroad via **auction** for guaranteed service, or via tariff for nonguaranteed service, or through the secondary railcar market.

The **secondary rail market** information reflects trade values for service that was originally purchased from the railroad carrier as some form of guaranteed freight. The **auction and secondary rail** values are indicators of rail service quality and demand/supply.

Figure 4

Secondary rail car market, delivery month-year



*up to 6 months of trading

Source: Transportation & Marketing Programs/AMS/USDA

Average bid/offer is the simple average of all the weekly bids/offers over the entire period (up to 6 months) for guaranteed railcars that are traded for delivery in a particular month.

Range for bid/offer shows the range of average weekly bids/offers over the entire period (up to 6 months) for guaranteed railcars that are traded for delivery in a particular month.

Table 6--Weekly secondary rail car market, week ending 12/10/05 (\$/car)*

	Delivery period			
	Jan-06	Feb-06	Mar-06	Apr-06
BNSF-GF	\$275	\$163	\$113	\$50
Change from last week	\$100	\$25	\$25	\$0
UP-Pool	\$260	\$200	\$150	\$40
Change from last week	\$68	\$46	\$21	\$0

*Average premium/discount to tariff, \$/car-last week

Note: Bids listed are market INDICATORS only & are NOT guaranteed prices,

Missing value = no bid quoted; GF = guaranteed freight; Pool = guaranteed pool

Sources: Transportation and Marketing Programs/AMS/USDA

Data from Atwood/ConAgra, Harvest States Co-op, James B. Joiner Co., Tradewest Brokerage Co.

Table 7--Tariff rail rates for unit and shuttle train shipments*

Effective date:

12/5/2005

	Origin Region	Destination Region	Rate/car	Rate/metric ton	Rate/bushel**
<u>Unit train*</u>					
Wheat	Chicago, IL	Albany, NY	\$1,861	\$20.51	\$0.56
	Kansas City, MO	Galveston, TX	\$2,020	\$22.27	\$0.61
	South Central, KS	Galveston, TX	\$2,450	\$27.01	\$0.74
	Minneapolis, MN	Houston, TX	\$2,420	\$26.68	\$0.73
	St. Louis, MO	Houston, TX	\$2,360	\$26.01	\$0.71
	South Central, ND	Houston, TX	\$4,117	\$45.38	\$1.24
	Minneapolis, MN	Portland, OR	\$3,848	\$42.42	\$1.15
	South Central, ND	Portland, OR	\$3,841	\$42.34	\$1.15
	Northwest, KS	Portland, OR	\$4,490	\$49.49	\$1.35
	Chicago, IL	Richmond, VA	\$2,161	\$23.82	\$0.65
Corn	Chicago, IL	Baton Rouge, LA	\$2,610	\$28.77	\$0.73
	Council Bluffs, IA	Baton Rouge, LA	\$2,470	\$27.23	\$0.69
	Kansas City, MO	Dalhart, TX	\$1,965	\$21.66	\$0.55
	Minneapolis, MN	Portland, OR	\$3,130	\$34.50	\$0.88
	Evansville, IN	Raleigh, NC	\$1,961	\$21.62	\$0.55
	Columbus, OH	Raleigh, NC	\$1,850	\$20.39	\$0.52
	Council Bluffs, IA	Stockton, CA	\$3,606	\$39.75	\$1.01
Soybeans	Chicago, IL	Baton Rouge, LA	\$2,655	\$29.27	\$0.80
	Council Bluffs, IA	Baton Rouge, LA	\$2,515	\$27.72	\$0.75
	Minneapolis, MN	Portland, OR	\$3,610	\$39.79	\$1.08
	Evansville, IN	Raleigh, NC	\$1,961	\$21.62	\$0.59
	Chicago, IL	Raleigh, NC	\$2,561	\$28.23	\$0.77
<u>Shuttle Train*</u>					
Wheat	St. Louis, MO	Houston, TX	\$1,820	\$20.06	\$0.55
	Minneapolis, MN	Portland, OR	\$3,648	\$40.21	\$1.09
Corn	Fremont, NE	Houston, TX	\$2,304	\$25.40	\$0.65
	Minneapolis, MN	Portland, OR	\$3,024	\$33.33	\$0.85
Soybeans	Council Bluffs, IA	Houston, TX	\$2,412	\$26.59	\$0.72
	Minneapolis, MN	Portland, OR	\$3,170	\$34.94	\$0.95

*A unit train refers to shipments of at least 52 cars. Shuttle train rates are available for qualified shipments of more than 100 cars that meet railroad efficiency requirements.

**Approximate load per car = 100 short tons: corn 56 lbs./bu., wheat & soybeans 60 lbs./bu.

Sources: www.bnsf.com, www.cpr.ca, www.csx.com, www.uprr.com

Table 8--Tariff rail rates for U.S. bulk grain shipments to Mexico, 2005**Effective date:** 12/05/05

Commodity	Origin State	Border crossing region	Train size	Rate¹	Rate/metric ton	Rate/bushel**
Wheat	KS	Brownsville, TX	Shuttle	\$2,851	\$29.13	\$0.79
	ND	Eagle Pass, TX	Unit	\$4,004	\$40.91	\$1.11
	OK	El Paso, TX	Shuttle	\$2,235	\$22.84	\$0.62
	OK	El Paso, TX	Unit	\$2,432	\$24.85	\$0.68
	AR	Laredo, TX	Unit	\$2,383	\$24.35	\$0.66
	IL	Laredo, TX	Unit	\$3,188	\$32.57	\$0.89
	MT	Laredo, TX	Shuttle	\$4,298*	\$43.92	\$1.19
	TX	Laredo, TX	Shuttle	\$2,165	\$22.12	\$0.60
	MO	Laredo, TX	Shuttle	\$2,731	\$27.90	\$0.76
	WI	Laredo, TX	Unit	\$3,405	\$34.79	\$0.95
Corn	NE	Brownsville, TX	Shuttle	\$3,214	\$32.84	\$0.83
	NE	Brownsville, TX	Unit	n/a	n/a	n/a
	IA	Eagle Pass, TX	Unit	\$3,444	\$35.19	\$0.89
	MO	Eagle Pass, TX	Shuttle	n/a	n/a	n/a
	NE	Eagle Pass, TX	Shuttle	n/a	n/a	n/a
	IA	Laredo, TX	Shuttle	\$3,367	\$34.40	\$0.87
Soybean	IA	Brownsville, TX	Shuttle	\$2,989	\$30.54	\$0.83
	MN	Brownsville, TX	Shuttle	\$3,031	\$30.97	\$0.84
	NE	Brownsville, TX	Shuttle	\$2,798	\$28.59	\$0.78
	NE	Eagle Pass, TX	Shuttle	\$2,874	\$29.37	\$0.80
	IA	Laredo, TX	Unit	\$3,028	\$30.94	\$0.84

A unit train refers to shipments of at least 52 cars. Shuttle train are available for qualified shipments of more than 100 cars that meet railroad efficiency requirements.

¹Rates are based upon published tariff rates for high-capacity rail cars.

*High-capacity rate not available, rate estimated using published low-capacity tariff rate x 1.08

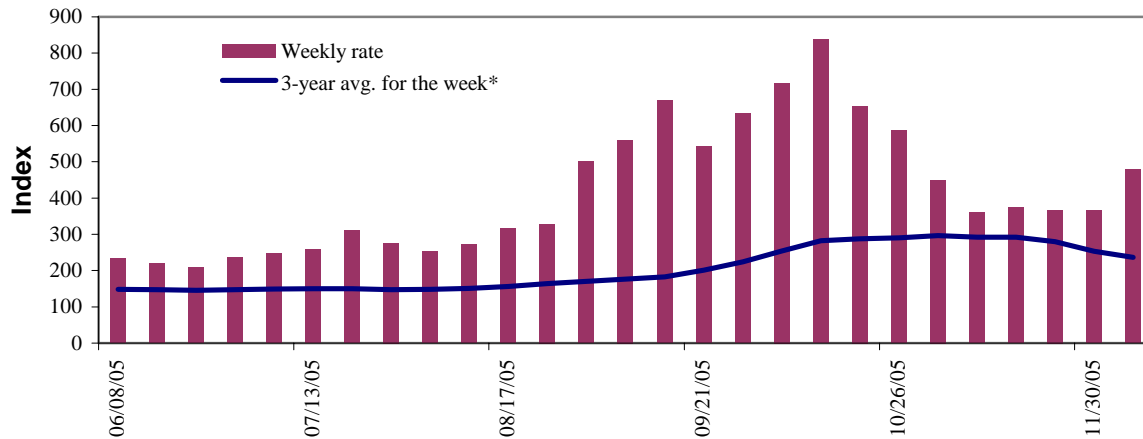
**Approximate load per car = 97.87 metric tons: Corn 56 lbs/bu, Wheat & Soybeans 60 lbs/bu

Sources: www.bnsf.com, www.uprr.com

Barge Transportation

Figure 5

Illinois River barge rate index - quotes



Note: Index = percent of tariff rate; *4-week moving average

Source: Transportation & Marketing Programs/AMS/USDA

The **Illinois River barge rate index** averaged 183 percent of the **benchmark tariff rates** between 1999 and 2001, based on weekly market quotes. The **index**, along with **rate quotes** and **futures market bids** are indicators of grain transport supply and demand.

Table 9--Barge rate quotes: southbound barge freight

Location	12/7/2005	11/30/2005	Jan. '06	Mar. '06
Twin Cities	n/a	n/a	n/a	n/a
Mid-Mississippi	n/a	365	n/a	366
Illinois River	478	366	478	359
St. Louis	386	322	376	320
Lower Ohio	388	327	376	332
Cairo-Memphis	343	275	330	306

Index = percent of tariff, based on 1976 tariff benchmark rate

Source: Transportation & Marketing Programs/AMS/USDA

Calculating barge rate per ton:

$(\text{Index} * 1976 \text{ tariff benchmark rate per ton}) / 100$

Select applicable index from market quotes included in tables on this page. The 1976 benchmark rates per ton are provided in map (see figure 6).

Note: The Illinois barge rate is for Beardstown, IL, La Grange Lock & Dam (L&D 8).

Figure 6

Benchmark tariff rates

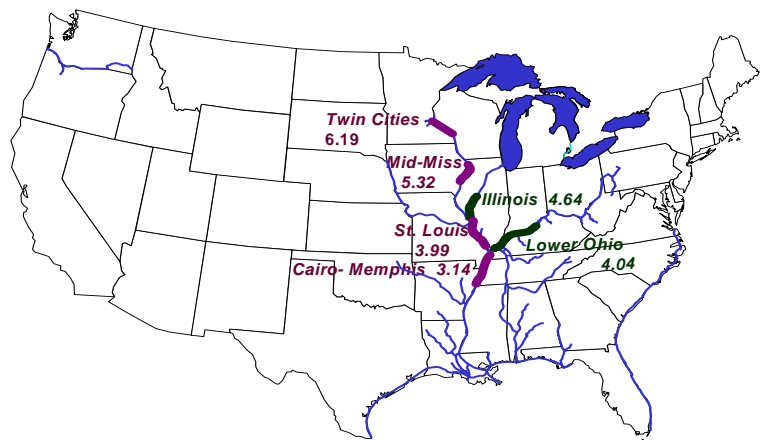
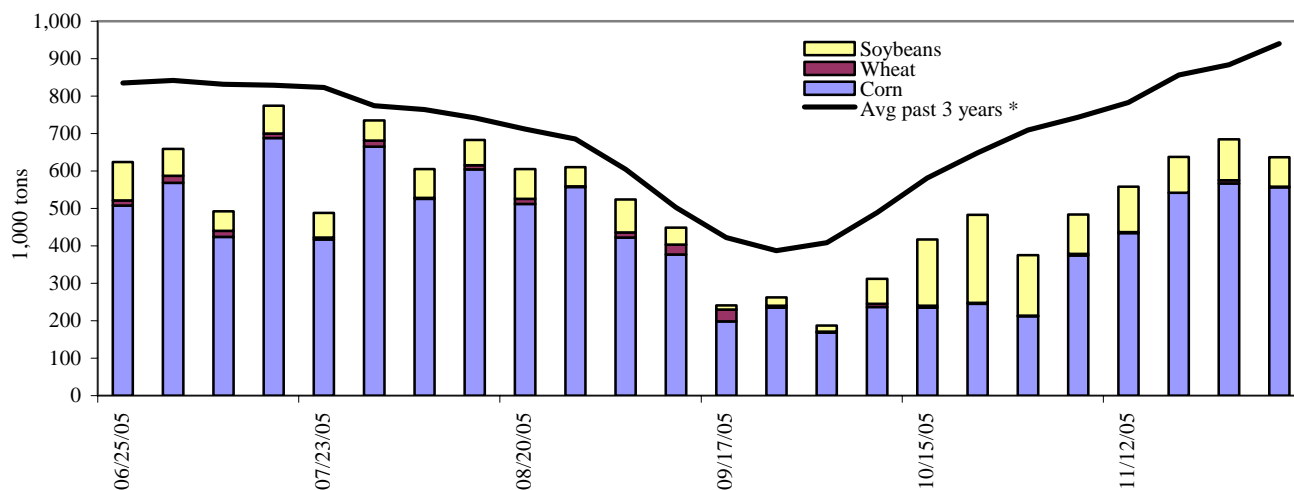


Figure 7

Barge movements on the Mississippi River (Locks 27 - Granite City, IL)

* 4-week moving average

Source: Transportation & Marketing Programs/AMS/USDA

Table 10--Barge grain movements (1,000 tons)

Week ending 12/03/2005	Corn	Wheat	Soybean	Other	Total
Mississippi River					
Rock Island, IL (L15)	260	0	64	9	333
Winfield, MO (L25)	363	3	59	0	425
Alton, IL (L26)	587	3	76	6	672
Granite City, IL (L27)	556	2	79	0	637
Illinois River (L8)	174	2	24	2	202
Ohio River (L52)	62	5	51	2	120
Arkansas River (L1)	1	17	21	9	48
2005 YTD	21,826	1,539	6,601	638	30,604
2004 YTD	23,479	2,544	5,634	719	32,376
2005 as % of 2004 YTD	93	60	117	89	95
Total 2004	26,235	2,701	6,784	843	36,563

YTD (year-to-date) and calendar year total includes Miss/27, Ohio/52, and Ark/1; "Other" refers to oats, barley, sorghum, and rye.

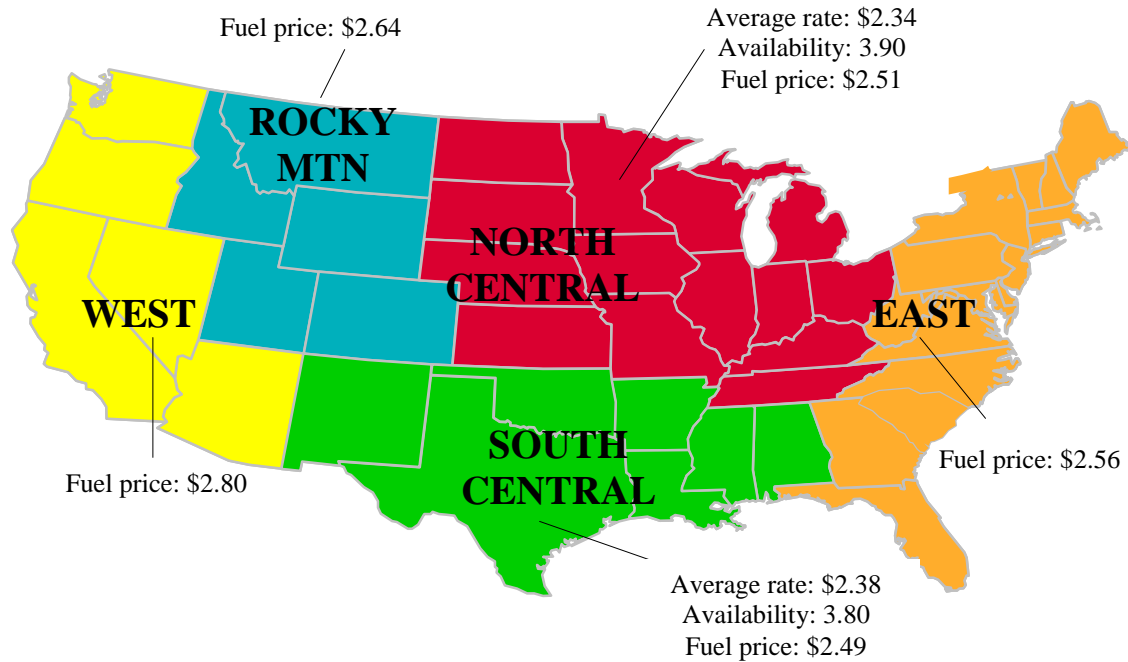
Source: U.S. Army Corp of Engineers (www.mvr.usace.army.mil/mvrimi/omni/webbrpts/default.asp)

Note: Total may not add exactly, due to rounding

Truck Transportation

Figure 8

U.S. grain truck market advisory, 3rd quarter 2005*



*Average rate per loaded mile, based on truck rates for trips of 25, 100, and 200 miles

Note: Fuel prices are a quarterly average (unit per gallon)

Fuel price data source: Energy Information Administration, U.S. Department of Energy, www.eia.doe.gov

Table 11--U.S. grain truck market overview, 3rd quarter 2005

Region	25 miles	100 miles	200 miles	Truck availability	Truck activity	Future truck activity
	¹ Rate per mile			<i>Rating compared to same quarter last year</i>		
				1=Very easy to 5=Very difficult	1=Much lower to 5=Much higher	
National average²	3.16	2.38	2.04	3.6	2.9	3.2
North Central region	2.82	2.22	1.98	3.9	2.9	3.2
Rocky Mountain	4.23	2.28	1.96	2.4	2.8	3.2
South Central	2.73	2.28	2.14	3.8	3.0	3.3
West	4.54	3.29	2.65	3.7	3.3	3.0

¹Rates are based on trucks with 80,000 lb gross vehicle weight limit

²National average includes: AR, CO, IA, IL, IN, KS, LA, MN, MS, ND, NE, OH, OK, OR, SD, TX, and WA.

Source: Transportation and Marketing Programs/AMS/USDA

The **weekly diesel price** provides a proxy for trends in U.S. truck rates. Diesel fuel is a significant expense for truck grain movements, accounting for 37 percent of the estimated variable cost.

Table 12--Retail on-highway diesel prices*, week ending 12/12/05 (US\$/gallon)

Region	Location	Price	Change from	
			Week ago	Year ago
I	East Coast	2.458	0.030	0.395
	New England	2.598	0.007	0.392
	Central Atlantic	2.577	0.008	0.393
	Lower Atlantic	2.393	0.039	0.395
II	Midwest ¹	2.409	0.019	0.456
III	Gulf Coast ²	2.429	0.018	0.519
IV	Rocky Mountain	2.401	-0.070	0.352
V	West Coast	2.500	-0.038	0.403
	California	2.465	-0.021	0.327
Total	U.S.	2.436	0.011	0.439

*Diesel fuel prices include all taxes.

Source: Energy Information Administration/U.S. Department of Energy (www.eia.doe.gov)

¹Same as North Central

²Same as South Central

Grain Exports

Table 13--U.S. export balances (1,000 metric tons)

Week ending 1/	Wheat						Corn	Soybeans	Total
	HRW	SRW	HRS	SWW	DUR	All wheat			
12/1/2005	2,728	288	1,067	842	77	5,001	7,432	4,079	16,512
This week year ago	1,511	493	1,293	730	116	4,143	8,624	5,755	18,522
Cumulative exports-crop year 2/									
2005/06 YTD	5,615	1,124	4,236	2,010	396	13,381	11,939	8,324	33,644
2004/05 YTD	5,149	2,142	4,332	2,905	334	14,863	12,273	10,822	37,958
2005/06 as % of 2004/05	109	52	98	69	119	90	97	77	89
2004/05 Total	9,407	3,217	8,083	4,773	686	26,117	44,953	29,878	100,948
2003/04 Total	12,697	3,785	6,928	4,895	1,053	29,359	47,704	24,108	101,171

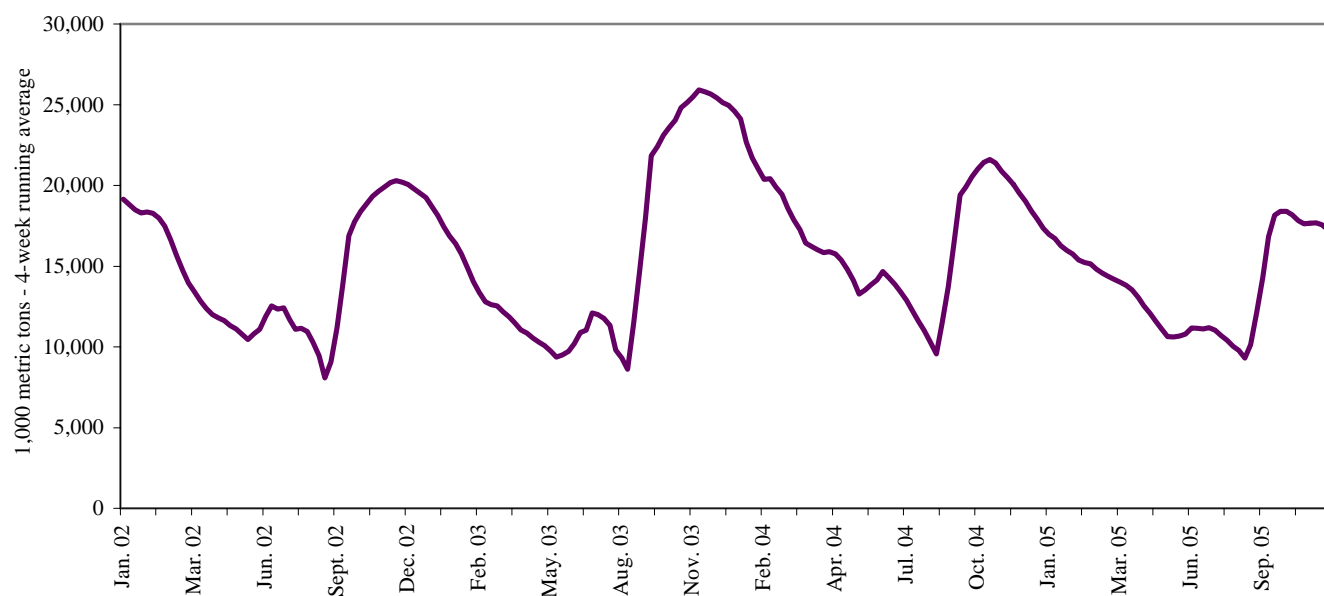
Note: YTD = year-to-date. Crop year: wheat = 6/01-5/31, corn & soybeans = 9/01-8/31, 1/ = Current unshipped export sales to date

2/ = Shipped export sales to date

Source: Foreign Agricultural Service/USDA (www.fas.usda.gov)

Figure 9

U.S. grain, unshipped export balance, including wheat, corn, and soybean sales



Source: Foreign Agricultural Service/USDA (www.fas.usda.gov)

Table 14--Select U.S. port regions - grain inspections for export (1,000 metric tons)

Week ending	Pacific Region			Mississippi Gulf			Texas Gulf			Port Region total		
	Wheat	Corn	Soybeans	Wheat	Corn	Soybeans	Wheat	Corn	Soybeans	Pacific	Mississippi	Texas
12/08/05	333	152	87	117	552	319	118	31	7	572	989	156
2005 YTD	10,151	9,451	5,871	4,516	25,823	13,780	7,172	791	32	25,473	44,118	7,995
2004 YTD	11,951	9,673	4,257	6,969	31,419	14,109	8,209	155	20	25,882	52,497	8,384
2005 as % of 2004	85	98	138	65	82	98	87	511	159	98	84	95
2004 Total *	12,600	10,154	4,787	7,269	33,321	15,952	8,558	186	25	27,541	56,541	8,769

Source: Grain Inspection, Packers and Stockyards Administration/USDA (www.gipsa.usda.gov); YTD: year-to-date; * includes 53rd week

The United States exports approximately one-quarter of the grain it produces. On average, it includes nearly 45 percent of U.S.-grown wheat, 35 percent of U.S.-grown soybeans, and 20 percent of the U.S.-grown corn. Approximately 55 percent of these U.S. export grain shipments departed through the Mississippi Gulf region in 2004.

Figure 10

U.S. grain inspected for export (wheat, corn, and soybeans)

Source: Grain Inspection, Packers and Stockyards Administration/USDA (www.gipsa.usda.gov)

Ocean Transportation

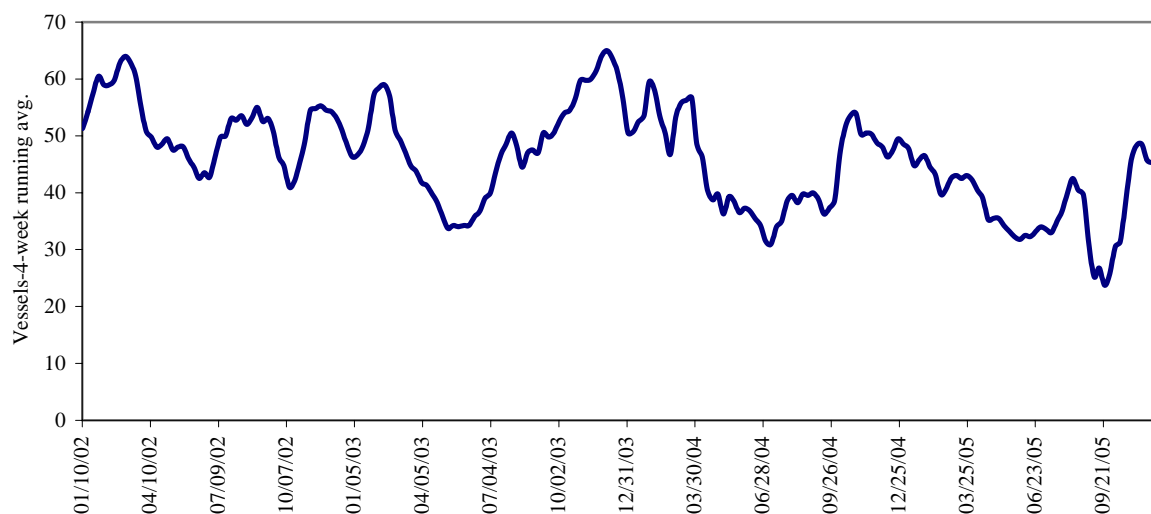
Table 15--Weekly port region grain ocean vessel activity (number of vessels)

Date	Gulf			Pacific Northwest	Vancouver B.C.
	In port	Loaded 7-days	Due next 10-days	In port	In port
12/8/2005	32	51	55	10	9
12/1/2005	32	44	63	14	9
2004 range	(10..43)	(25..73)	(38..96)	(4..16)	(0..18)
2004 avg.	24	45	61	9	6

Source: Transportation & Marketing Programs/AMS/USDA

Figure 11

Gulf Port grain vessel loading (past 7 days)



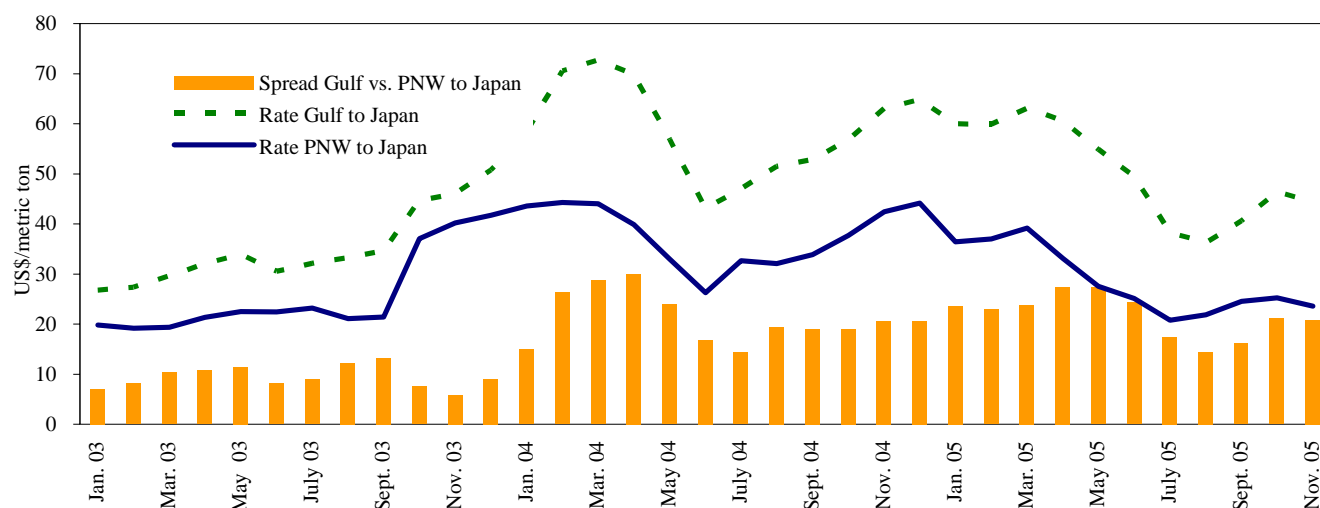
Source: Transportation & Marketing Programs/AMS/USDA

Table 16--Quarterly ocean freight rates (average rates & percentage changes) (US\$/metric ton)

Countries/ regions	2005 3 rd qtr	2004 3 rd qtr	Percent change	Countries/ regions	2005 3 rd qtr	2004 3 rd qtr	Percent change
Gulf to				Pacific NW to			
Japan	36.33	50.08	-27	Japan	---	37.00	---
China		54.00	---	Argentina/Brazil to			
Taiwan	---	---	---	China	32.00		
N. Africa	24.25	---	---	N. Africa	40.00	---	---
Med. Sea	---	---	---	Turkey	25.00	---	

Source: Maritime Research, Inc. (www.maritime-research.com)

Figure 12

Grain vessel rates, U.S. to Japan

Source: Baltic Exchange (www.balticexchange.com)

Table 17--Ocean freight rates for selected shipments, week ending 12/10/05

Export region	Import region	Grain	Month	Volume loads (metric tons)	Freight rate (\$/metric ton)
U.S. Gulf	Nicaragua*	Wheat	Nov 15/25	4,130	69.99
U.S. Gulf	Japan	Hvy Grain	Nov 1/5	54,000	47.50
U.S. Gulf	Morocco	Hvy Grain	Oct 1/20	30,000	31.00
U.S. Gulf	Rotterdam	Hvy Grain	Dec 10/20	65,000	19.70
Australia	Italy	Wheat	Dec 5/25	55,000	26.00
Germany	Tunisia	Barley	Dec 6/12	25,000	24.25
River Plate	Spain	Hvy Grain	Oct 10/20	55,000	39.00
River Plate	Algeria	Hvy Grain	Dec 1/10	25,000	42.50
River Plate	Morocco	Hvy Grain	Oct 27/Nov 3	30,000	39.50
Russia	Pakistan	Hvy Grain	Oct 15/20	55,000	32.50

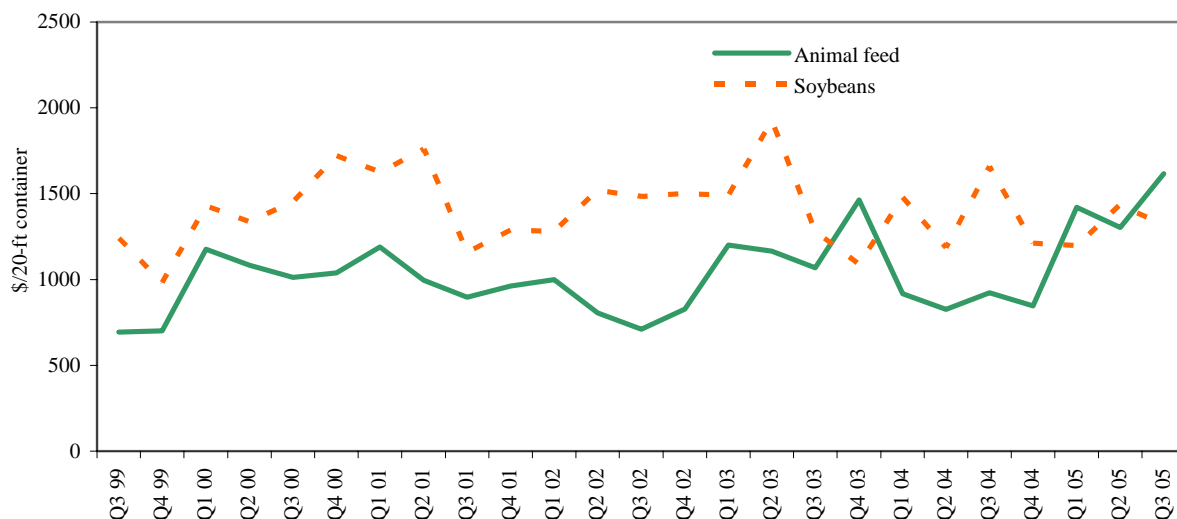
Rates shown are for metric ton (2,204.62 lbs. = 1 metric ton), F.O.B., except where otherwise indicates; op = option

*75 percent of food aid from the United States is required to be shipped on U.S. flag vessels. The vessels are limited in availability resulting in higher rates. In addition, destinations receiving food aid generally lack adequate port unloading facilities, requiring the vessel to remain in port for a longer duration than normal.

Source: Maritime Research Inc. (www.maritime-research.com)

Figure 13

Weighted average rates¹ for containerized shipments of animal feed and soybeans to selected Asian countries



¹ Animal Feed: Busan-Korea (13%), Kaohsiung-Taiwan (35%), Tokyo-Japan (34%), Hong Kong (12%), Bangkok-Thailand (6%) and soybeans: Busan-Korea (1%), Keelung-Taiwan (87%), Tokyo-Japan (9%), Bangkok-Thailand (2%), Hong Kong (1%)

Quarter 3, 2005.

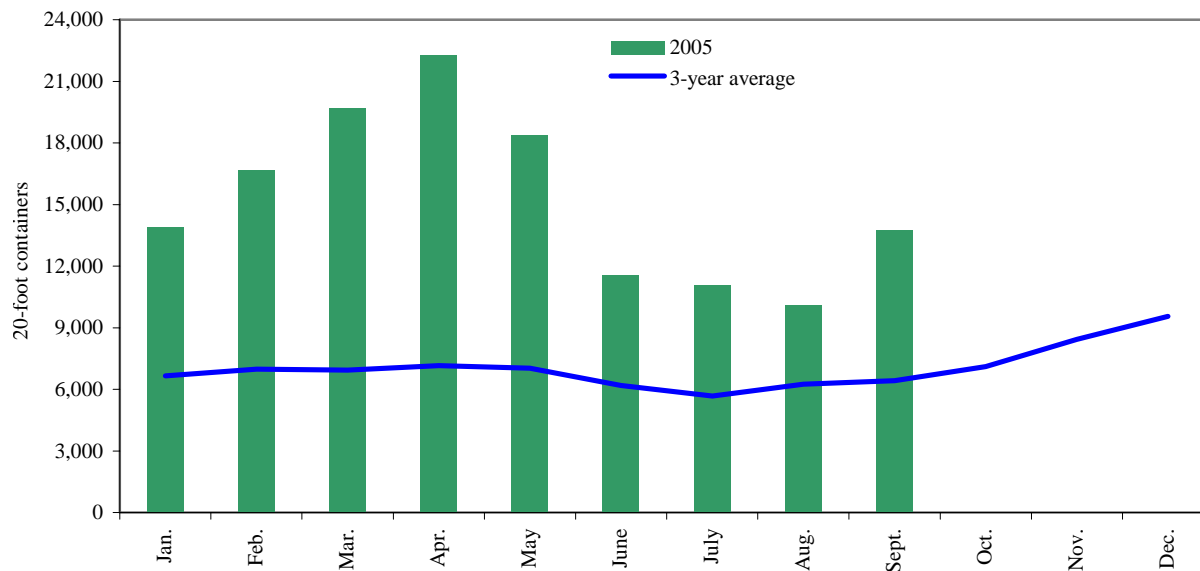
Source: Ocean Rate Bulletin, Transportation & Marketing Programs/AMS/USDA

Container ocean freight rates – average rate per twenty-foot equivalent unit (TEU) weighted by shipping line market share and trade route.

During 2004, containers were used to transport 2 percent of total U.S. grain exported, and 3 percent of total U.S. grain exported to Asia.

Figure 14

Monthly shipments of containerized grain to Asia for 2005 compared with a 3-year average



Source: Port Import Export Reporting Service (PIERS), *Journal of Commerce*

Note: PIERS data is available with a lag of approximately 40 days

Brazil Transportation

Figure 15
Routes and Regions considered in the Brazilian soybean export transportation indicator¹



¹Regions comprised 84 percent of Brazilian soybean production, 2003
Source: ESALQ/USP (University of São Paulo, Brazil) and USDA/AMS

Table 18--Truck rates for selected Brazilian soybean export transportation routes, 3rd quarter 2005

Route #	Origin ¹ (reference city)	Destination	Distance (miles) ²	Weight(%) ³	Freight price (per 100 miles) ⁴
1	Northwest RS ⁵ (Cruz Alta)	Rio Grande	288	16.6	4.39
2	North MT(Sorriso)	Santos	1190	10.1	6.99
3	North MT(Sorriso)	Paranaguá	1262	9.5	6.39
4	South GO(Rio Verde)	Santos	587	7.0	7.13
5	South GO(Rio Verde)	Paranaguá	726	5.6	5.60
6	North Center PR(Londrina)	Paranaguá	268	4.4	8.49
7	Western Center PR(Mamborê)	Paranaguá	311	3.9	5.88
8	Triangle MG(Uberaba)	Santos	339	3.8	9.93
9	West PR(Assis Chateaubriand)	Paranaguá	377	3.7	5.95
10	West Extreme BA(São Desidério)	Ilhéus	544	3.6	7.56
11	Southeast MT(Primavera do Leste)	Santos	901	3.6	6.76
12	Southeast MT(Primavera do Leste)	Paranaguá	975	3.3	6.14
13	Southwest MS(Maracaju)	Paranaguá	612	3.1	5.69
14	Southwest MS(Maracaju)	Santos	652	2.9	5.66
15	West PR(Assis Chateaubriand)	Santos	550	2.5	5.65
16	Western Center RS(Tupanciretã)	Rio Grande	273	2.4	5.60
17	Southwest PR(Chopinzinho)	Paranaguá	291	2.3	8.34
18	Eastern Center PR(Castro)	Paranaguá	130	2.3	9.53
19	South Center PR(Guarapuava)	Paranaguá	204	2.1	8.32
20	North Center MS(São Gabriel do Oeste)	Santos	720	2.0	5.25
21	Ribeirão Preto SP(Guairá)	Santos	314	1.5	7.98
22	Northeast MT(Canarana)	Santos	950	1.4	7.62
23	Assis SP(Palmital)	Santos	285	1.2	8.01
24	Northeast MT(Canarana)	Paranaguá	1075	1.2	6.72
Average			626	100	6.48

¹Although each origin region comprises several cities, the main city is considered as a reference to establish the freight price

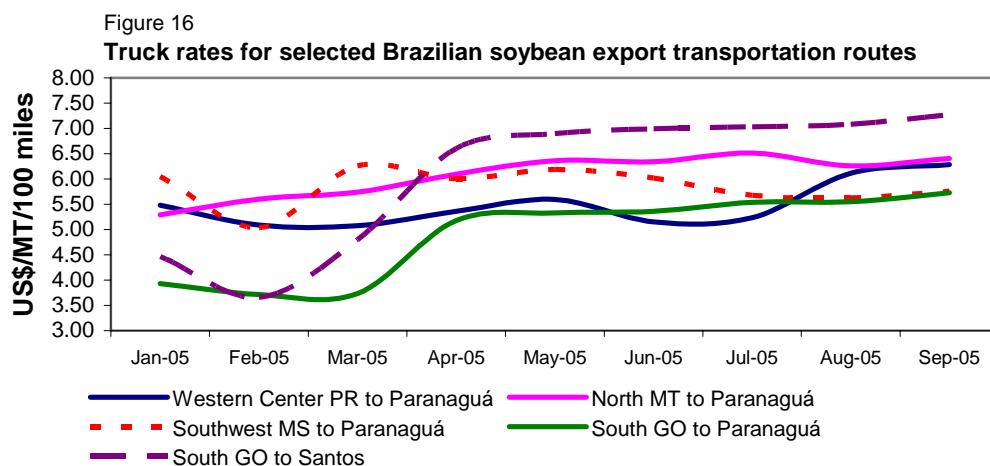
²Distance from the main city of the considered region to the mentioned ports

³The weight is directly proportional to the amount of production in each region

⁴US\$ per metric ton (average monthly exchange rate from "Banco Central do Brasil" was used to convert Brazilian reais to the U.S. dollar)

⁵RS = Rio Grande Do Sul, MT= Mato Grosso, GO = Goiás, PR = Paraná, MG = Minas Gerais, BA = Bahia, MS = Mato Grosso Do Sul, SP = São Paulo

Source: ESALQ/USP (University of São Paulo, Brazil) and USDA/AMS



Source: ESALQ/ USP (University of São Paulo, Brazil) and USDA/AMS

Table 19--Monthly Brazilian soybean export truck transportation cost index

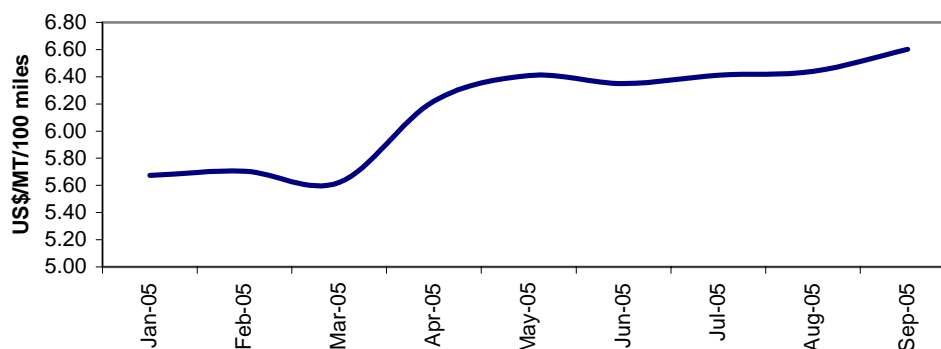
Month	Freight price* (per 100 miles)	Index variation (%) (Base: prior month)	Index value (Base: Jan. 05 = 100)
Jan. 05	5.67		100.00
Feb. 05	5.71	0.5	100.54
Mar. 05	5.62	-1.5	99.08
Apr. 05	6.22	10.6	109.61
May 05	6.41	3.1	112.96
Jun. 05	6.35	-0.9	111.90
Jul. 05	6.41	1.0	112.99
Aug. 05	6.44	0.4	113.46
Sep. 05	6.60	2.5	116.36

*weighted average and quoted in US\$ per metric ton

Source: ESALQ/USP (University of São Paulo, Brazil) and USDA/AMS

Figure 17

Brazilian soybean export truck transportation weighted average prices, 2005



Source: ESALQ/USP (University of São Paulo, Brazil) and USDA/AMS

Table 20--Quarterly ocean freight rates for shipping soybeans from selected Brazilian ports to Hamburg, Germany (US\$/metric ton)*

Ports	2005 1st qtr	2005 2nd qtr	2005 3rd qtr
Santos	45.53	45.84	44.54
Paranagua	44.64	44.84**	43.54
Rio Grande	44.20	44.39	43.04

*correspond to the average actual values negotiated between shippers and carriers and weighted according to the magnitude of the shipped volumes

Source: Sistema de Informações de Fretes, SIFRECA, ESALQ/USP (University of São Paulo, Brazil)

**Revised figure

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Related Websites

<i>Agricultural Container Indicators</i>	http://www.ams.usda.gov/tmd2/agci/
<i>Ocean Rate Bulletin</i>	http://www.ams.usda.gov/tmd/Ocean/index.asp

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